

206

AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY

Founded by Aleš Hrdlička, 1918

MANAGING EDITOR
FRANCIS E. JOHNSTON
University of Pennsylvania
Department of Anthropology
University Museum F1
Philadelphia, Pennsylvania 19104

ASSOCIATE EDITORS

HENRY HARPENDING
University of New Mexico

GLENN HAUSFATER
The University of Virginia

WILLIAM HYLANDER
Duke University

LAURA NEWELL-MORRIS
University of Washington

CHARLES OXNARD
University of Chicago

ALEX ROCHE
The Fels Research Institute

PHILLIP V. TOBIAS
University of the Witwatersrand

ALAN WALKER
Harvard University

BOOK REVIEW EDITOR
EUGENE GILES
Department of Anthropology
109 Davenport Hall
University of Illinois
Urbana, Illinois 61801

FILM REVIEW EDITOR
EDWARD E. HUNT, JR.
Department of Anthropology
409 Social Sciences Building
Pennsylvania State University
University Park, Pennsylvania 16802

Official Publication of the American Association of Physical Anthropologists

VOLUME 48

JANUARY, FEBRUARY, MARCH, MAY, 1978

PUBLISHED BY
THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY
PHILADELPHIA, PA.

COPYRIGHT © 1978 BY
THE WISTAR INSTITUTE PRESS
All rights reserved

Contents

No. 1 JANUARY 1978

WILLIAM L. HYLANDER. Incisal Bite Force Direction in Humans and the Functional Significance of Mammalian Mandibular Translation	1
DANNY R. SAWYER, MARVIN J. ALLISON, RICHARD P. ELZAY AND ALEJANDRO PEZZIA. The Mylohyoid Bridge of Pre-Columbian Peruvians.....	9
JUAN MUNIZAGA, MARVIN J. ALLISON AND EUGENIO ASPILLAGA. Diaphragmatic Hernia Associated with Strangulation of the Small Bowel in an Atacamena Mummy.....	17
WILLIAM J. BABLER. Prenatal Selection and Dermatoglyphic Patterns.....	21
EMŐKE J. E. SZATHMARY AND T. EDWARD REED. Calculation of the Maximum Amount of Gene Admixture in a Hybrid Population.....	29
CHRISTINE R. DUGGLEBY. Blood Group Antigens and the Population Genetics of <i>Macaca mulatta</i> on Cayo Santiago. I. Genetic Differentiation of Social Groups.....	35
JAMES M. CHEVERUD AND JANE E. BUIKSTRA. A Study of Intragroup Biological Change Induced by Social Group Fission in <i>Macaca mulatta</i> Using Discrete Cranial Traits.....	41
D. C. GAJDUSEK, W. C. LEYSHON, R. L. KIRK, N. M. BLAKE, BRONYA KEATS AND E. M. McDERMID. Genetic Differentiation among Populations in Western New Guinea.....	47
FARISH A. JENKINS, JR., PHILIP J. DOMBROWSKI AND E. P. GORDON. Analysis of the Shoulder in Brachiating Spider Monkeys.....	65
THOMAS K. BLACK III. Sexual Dimorphism in the Tooth-Crown Diameters of the Deciduous Teeth.....	77
RONALD K. WETHERINGTON AND GARY W. RUTENBERG. Contributions to Variance in Phalangeal Growth: Estimates from Twins	83
ROBERT DiBENNARDO AND HOWARD L. BAILIT. Stress and Dental Asymmetry in a Population of Japanese Children.....	89
CAROLE OBER, THOMAS J. OLIVIER AND JOHN BUETTNER-JANUSCH. Carbonic Anhydrase Heterozygosity and F_{ST} Distributions in Kenyan Baboon Troops.....	95
PHILLIP L. WALKER. A Quantitative Analysis of Dental Attrition Rates in the Santa Barbara Channel Area	101
PENTTI KIRVESKARI, HASSE HANSSON, BJÖRN HEDEGARD AND ULF KARLSSON. Crown Size and Hypodontia in the Permanent Dentition of Modern Skolt Lapps.....	107

JONATHAN H. MUSGRAVE AND NARENDRA K. HARNEJA. The Estimation of Adult Stature from Metacarpal Bone Length	113
MARC A. KELLEY. Phenice's Visual Sexing Technique for the Os Pubis: A Critique	121
Guide for Authors	123
Erratum: (Hylander, William L., 46: 309-326.).....	129

No. 2 FEBRUARY 1978

RALPH L. KENT, JR., ROBERT B. REED AND COENRAAD F. A. MOORREES. Associations in Emergence Age Among Permanent Teeth	131
MILFORD H. WOLPOFF. Some Implications of Relative Biomechanical Neck Length in Hominid Femora	143
HILDEGARD R. MARICQ. An Aid for Identification of Dermatoglyphic Patterns in Subjects Difficult to Fingerprint	149
MAHMOUD Y. EL-NAJJAR. Southwestern Physical Anthropology: Do the Cultural and Biological Parameters Correspond?.....	151
L. LEIGH FIELD, J. ALEXANDER LOWDEN AND AJIT K. RAY. Immunoglobulin (Gm) Allotypes in a Sample of Canadian Ashkenazic Jews	159
ERIC J. DEVOR. Genetic Variation in Transferrin Alleles of Rhesus Macaques, <i>Macaca mulatta</i>	165
S. L. MALIK AND INDERA P. SINGH. Growth Trends among Male Bods of Ladakh—A High Altitude Population	171
FINN BOJSEN-MØLLER. Extensor Carpi Radialis Longus Muscle and the Evolution of the First Intermetacarpal Ligament	177
MAHMOUD Y. EL-NAJJAR, MIKE V. DESANTI AND LEON OZEBEK. Prevalence and Possible Etiology of Dental Enamel Hypoplasia.....	185
PAUL W. SCIULLI. Developmental Abnormalities of the Permanent Dentition in Prehistoric Ohio Valley Amerindians	193
CAROLE BRYDA SZPUNAR, JOSEPH B. LAMBERT AND JANE E. BUIKSTRA. Analysis of Excavated Bone by Atomic Absorption	199
ROBERT S. CORRUCINI AND AVERY M. HENDERSON. Multivariate Dental Allometry in Primates.....	203
JUAN MUNIZAGA, MARVIN J. ALLISON AND CLAUDIO PAREDES. Cholelithiasis and Cholecystitis in Pre-Columbian Chileans	209
KAREN GOTTLIEB. Artificial Cranial Deformation and the Increased Complexity of the Lambdoid Suture.....	213
HENRY M. MCHENRY AND ROBERT S. CORRUCINI. Analysis of the Hominoid Os Coxae by Cartesian Coordinates.....	215

CONTENTS

v

THOMAS K. BLACK III. A New Method for Assessing the Sex of Fragmentary Skeletal Remains: Femoral Shaft Circumference.....	227
KAZURO HANIHARA AND TAKAO SUZUKI. Estimation of Age from the Pubic Symphysis by Means of Multiple Regression Analysis.....	233
MARY FRANCES ERICKSEN. Aging in the Lumbar Spine. II. L1 and L2	241
MARY FRANCES ERICKSEN. Aging in the Lumbar Spine. III. L5.....	247
<i>Brief Communications</i>	
J. E. LINDSAY CARTER AND JANA PARIZKOVA. Changes in Somatotypes of European Males between 17 and 24 Years.....	251
<i>Technical Reports</i>	
R. PETER JOHNSON AND OSKAR F. RICHTER. A Portable, Adjustable Finger Printing Stand.....	255
<i>Book Reviews</i>	257

No. 3 MARCH 1978

ROBERT E. FERRELL, AMINTA NUNEZ, TERRY BERTIN, DARWIN R. LABARTHE AND WILLIAM J. SCHULL. The Blacks of Panama: Their Genetic Diversity as Assessed by 15 Inherited Biochemical Systems.....	269
ROBERT A. BENFER, JOHN T. TYPPPO, VICKI B. GRAF AND EDWARD E. PICKETT. Mineral Analysis of Ancient Peruvian Hair.....	277
PETER E. MAXIM. Quantitative Analysis of Small Group Interaction in Rhesus Monkeys	283
JAMES D. CADIEEN, MATTHEW J. HASSETT AND JONATHAN S. FRIEDLAENDER. Linkage Disequilibrium in Bougainville Island.....	297
GRANT C. TOWNSEND AND TASMAN BROWN. Inheritance of Tooth Size in Australian Aborigines	305
DEAN FALK. Brain Evolution in Old World Monkeys.....	315
W. W. SOCHA, J. MOOR-JANKOWSKI AND G. P. SACKETT. Blood Groups of Pig-tailed Macaques (<i>Macaca nemestrina</i>)	321
RICHARD J. SMITH, DONALD KOLAKOWSKI AND HOWARD L. BAILIT. Variation in Dental Occlusion and Arches among Melanesians of Bougainville Island, Papua New Guinea. II. Clinal Variation, Geographic Microdifferentiation and Synthesis.....	331
H. N. PATERIA. Genetic Basis of a-b, b-c and c-d Ridge Counts on Human Soles	343
YOEL RAK AND F. CLARK HOWELL. Cranium of a Juvenile <i>Australopithecus boisei</i> from the Lower Omo Basin, Ethiopia.....	345
<i>Book Reviews</i>	367

AMERICAN ASSOCIATION OF PHYSICAL ANTHROPOLOGISTS. Abstracts of Papers to be Presented at the Forty Seventh Annual Meeting, University of Toronto, Toronto, Canada, April 13-15, 1978	377
--	-----

No. 4 MAY 1978

LAURA NEWELL-MORRIS AND LEWIS H. TARRANT. Ossification in the Hand and Foot of the Macaque (<i>Macaca nemestrina</i>). I. General Features.....	441
HÉCTOR M. PUCCIARELLI. The Influence of Experimental Deformation on Craniofacial Development in Rats	455
JAMES W. WOOD. Population Structure and Genetic Heterogeneity in the Upper Markham Valley of New Guinea	463
HERMAN T. EPSTEIN AND ERIKA B. EPSTEIN. The Relationship between Brain Weight and Head Circumference from Birth to Age 18 Years.....	471
G. P. RIGHTMIRE. Florisbad and Human Population Succession in Southern Africa	475
ROBIN A. BARRACO. Preservation of Proteins in Mummified Tissues	487
B. MARGETTS AND T. BROWN. Crown Diameters of the Deciduous Teeth in Australian Aborigines	493
JAMES J. MCKENNA. Biosocial Functions of Grooming Behavior among the Common Indian Langur Monkey (<i>Presbytis entellus</i>)	503
THÓRDUR EYDAL MAGNÚSSON. Age at Menarche in Iceland	511
FRANCIS C. LEES AND PAMELA J. BYARD. Skin Colorimetry in Belize. I. Conversion Formulae.....	515
FRED H. SMITH. Evolutionary Significance of the Mandibular Foramen Area in Neandertals	523
J. M. NAIDU, P. VEERRAJU AND D. P. MUKHERJEE. ABO Blood Groups and ABH Saliva Secretion in Reddis and Kammas of Southern Andhra Pradesh	533
<i>Brief Communications</i>	
M. CARTMILL AND P. D. GINGERICH. An Ethmoid Exposure (Os Planum) in the Orbit of <i>Indri indri</i> (Primates, Lemuriformes)	535
ROBERT S. CORRUCINI AND RUSSELL L. CIOCHON. Morphoclinical Variation in the Anthropoid Shoulder.....	539
<i>Film Reviews</i>	543
Index to Volume 48.....	545